

Question 1: Water at 20°C falls from a height of 854 m. If the whole energy is used in increasing the temperature, find out the final temperature.
Specific heat of water is 4200 J/K kg .

Given that

$$T_1 = 20^{\circ}\text{C} = 20 + 273 = 293 \text{ K}$$

$$\text{height} = h = 854 \text{ m}$$

$$\text{Specific heat of water} = 4200 \text{ J K}^{-1} \text{ kg}^{-1}$$

$$\text{Final temperature} = T_2 = ?$$

$$\text{P.E} = mgh \quad \text{--- (1)}$$

Solution:

We know that

$$\Delta Q = cm \Delta T \quad \text{--- (2)}$$

Whole energy is used in increasing the temperature (Given)

$$\Delta Q = \text{P.E}$$

From (1) and (2)

$$cm \Delta T = mgh$$

$$c \Delta T = gh$$

$$c (T_2 - T_1) = gh$$

$$T_2 - T_1 = \frac{gh}{c}$$

$$T_2 = \frac{gh}{c} + T_1$$

$$= \frac{9.8 \times 854}{4200} + 293$$

$$= \frac{8369.2}{4200} + 293 = 1.99 + 293$$

$$T_2 = 294.99 \text{ K} = 295 - 273^{\circ}\text{C}$$

$$T_2 = 22^{\circ}\text{C}$$

Answer The Following Questions About The Thermodynamics Of

Marcus Elstner, Qiang Cui, Maja Gruden

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Theoretical Chemistry from the Standpoint of Avogadro's Rule & Thermodynamics Walther Nernst, 1895

Introduction to Statistical Thermodynamics Marcus Elstner, Qiang Cui, Maja Gruden, 2024-05-09 This textbook presents the fundamentals of statistical thermodynamics and electronic structure theory and focuses on introducing the central concepts of thermodynamics and their relation to microscopic theories in a conceptually clear and simple way The emphasis is on the description of what is going on at the microscopic level which allows readers to understand the various facets of entropy as the fundamental driving force of all material behaviors An atomistic perspective is introduced from the beginning highlighting the importance of molecular structure and microscopic degrees of freedom for understanding the thermodynamic properties of materials such as heat capacity and magnetization Because of their importance in various research fields classical and quantum aspects are treated equally allowing modern research topics to be addressed with molecular simulation and electronic structure theory It is a valuable resource for undergraduate and graduate students in chemistry physics and materials science and its modular structure makes it suitable for any reader **Amino Acids, Peptides and Proteins** Luc Brunsveld, 2012 In an ever increasing domain of activity this annual compilation of the world's research effort provides insight into an important area of biological chemistry **Gravity and the Quantum** Jasjeet Singh Bagla, Sunu Engineer, 2017-02-23 This book provides a compilation of in depth articles and reviews on key topics within gravitation cosmology and related issues It is a celebratory volume dedicated to Prof Thanu Padmanabhan Paddy the renowned relativist and cosmologist from IUCAA India on the occasion of his 60th birthday The authors many of them leaders of their fields are all colleagues collaborators and former students of Paddy who have worked with him over a research

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